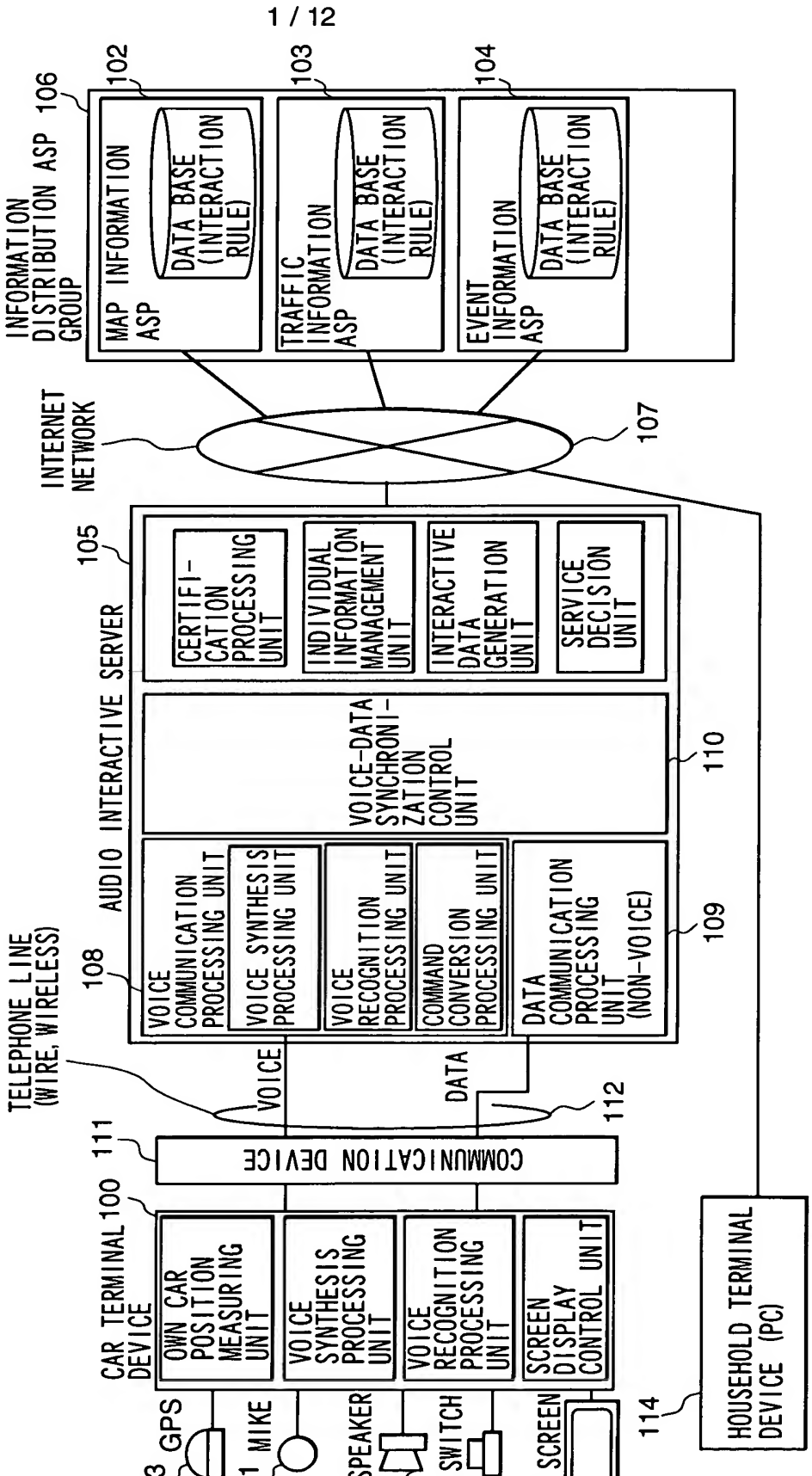
2002-602807

FIG. 1



2002-62628 "6DC28B0T

FIG. 2

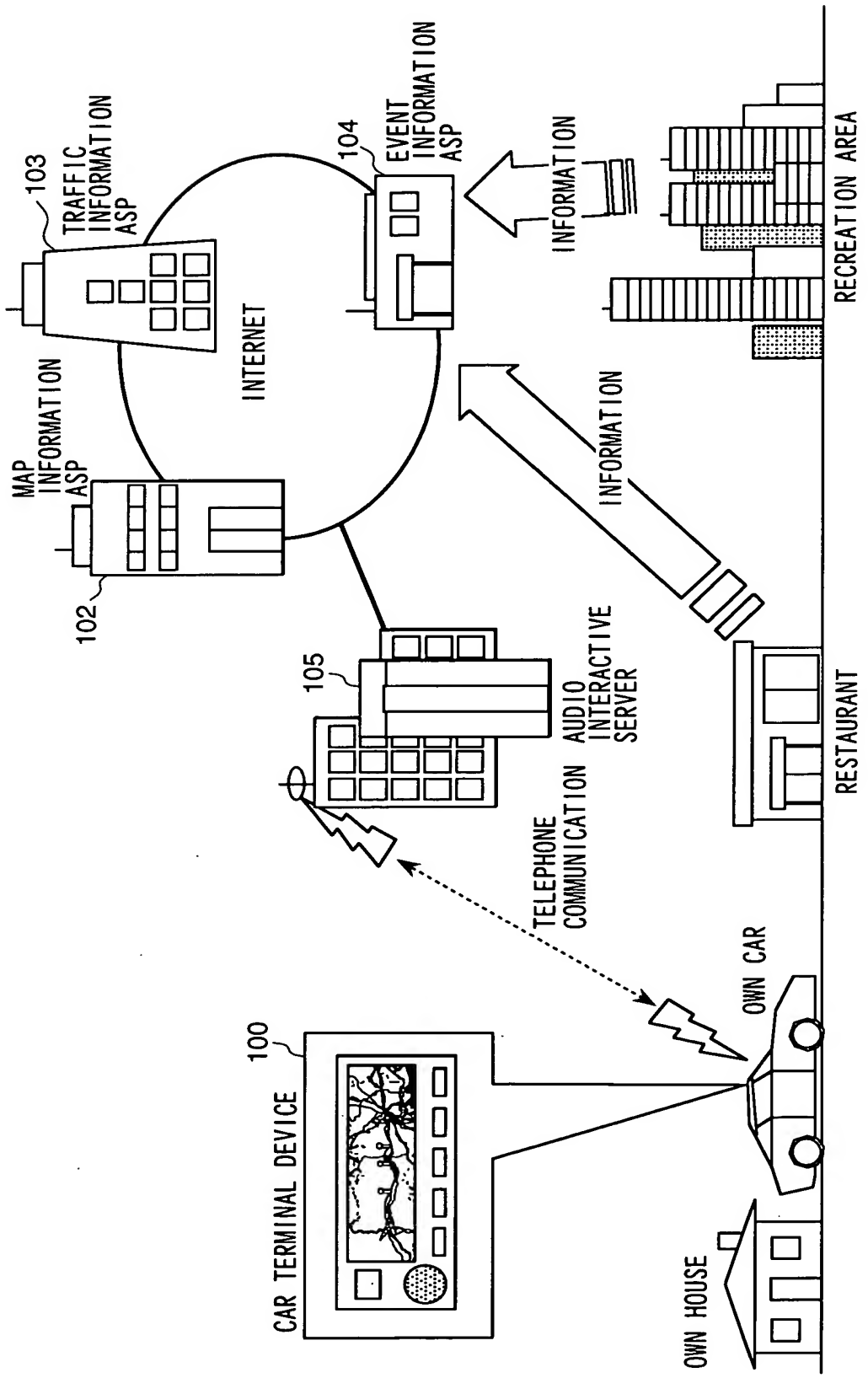


FIG. 3

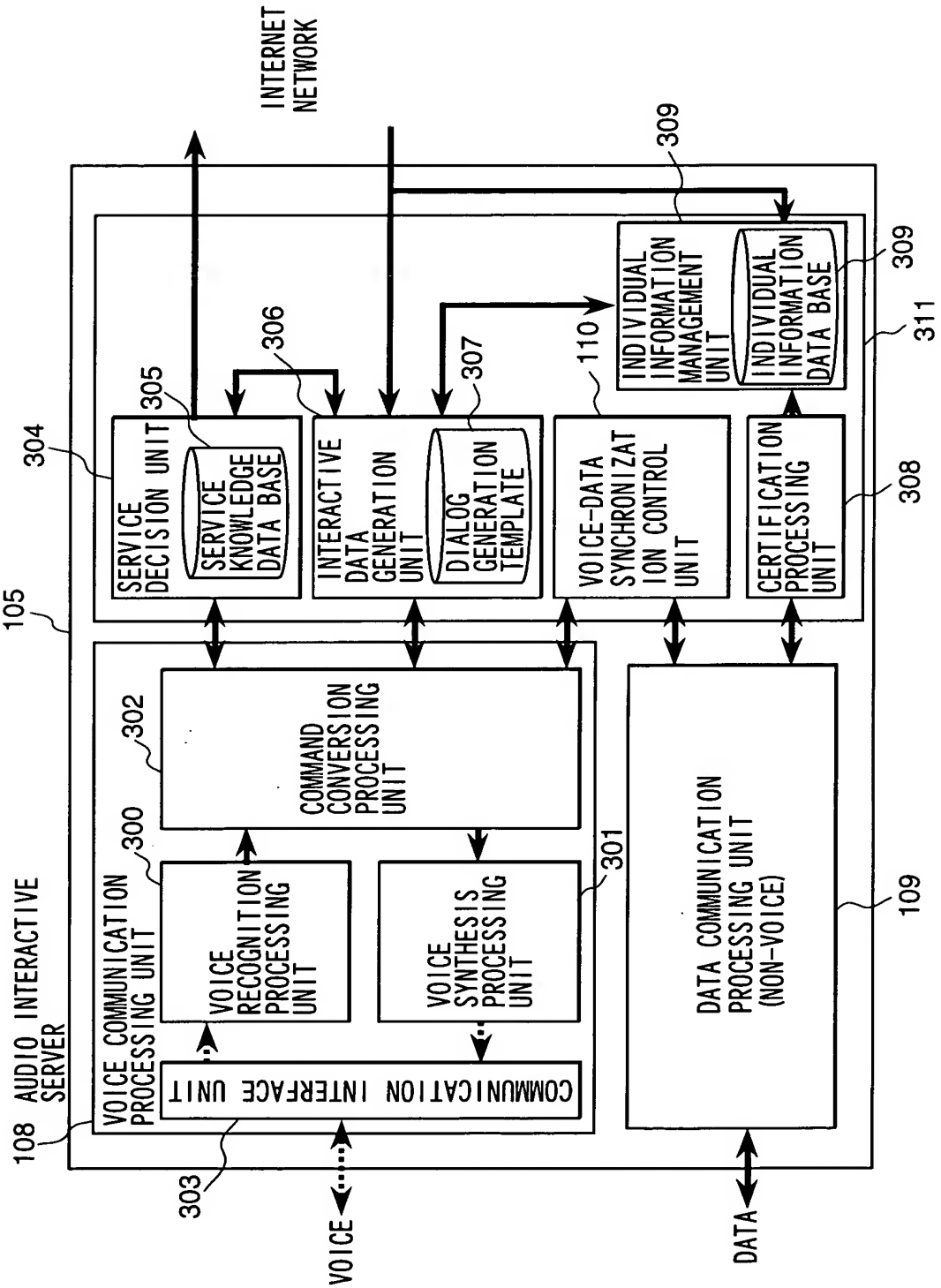

INTERNET NETWORK
309
309
311
306
307
110
305
304
SERVICE DECISION UNIT
SERVICE KNOWLEDGE DATA BASE
INTERACTIVE DATA GENERATION UNIT
DIALOG GENERATION TEMPLATE
VOICE-DATA SYNCHRONIZATION CONTROL UNIT
INDIVIDUAL INFORMATION MANAGEMENT UNIT
INDIVIDUAL INFORMATION DATA BASE
CERTIFICATION PROCESSING UNIT
308
105
302
COMMAND CONVERSION PROCESSING UNIT
300
301
VOICE RECOGNITION PROCESSING UNIT
VOICE SYNTHESIS PROCESSING UNIT
VOICE COMMUNICATION PROCESSING UNIT
108 AUDIO INTERACTIVE SERVER
COMMUNICATION INTERFACE UNIT
303
DATA COMMUNICATION PROCESSING UNIT (NON-VOICE)
109
VOICE
DATA

FIG. 4

401

```
<?xml verslon="1.0"?>
<vxml version="1.0">
 <form>
  <field name="where1">
   <prompt>
        %first_message_to_user%
   </prompt>
   <grammer src="%grammer%" type="application/x-isgf"/>
  </field>
   </block>
    <submit next="%URL%"/>
   </block>
 </form>
</vxml>
```

402

```
EXAMPLE OF CHARACTER STRING EMBEDDING (LOCATION DESIGNATED):
<?xml verslon="1.0"?>
<vxml version="1.0">
 <form>
  <field name="where1">
   <prompt>
        TO WHAT PLACE DO YOU GO?
   </prompt>
   <grammer src="where.gram" type="application/x-isgf"/>
  </field>
   </block>
    <submit next="http://www.dra.example/where2.asp"/>
   </block>
 </form>
</vxml>
```

```
INTERACTION EXECUTION EXAMPLE:
  COMPUTER:TO WHAT PLACE DO YOU GO?
  HUMAN:A PARK
  COMPUTER:NOT UNDERSTOOD
  COMPUTER:TO WHAT PLACE DO YOU GO?
  HUMAN:A PARK
  COMPUTER: (GO TO http://www.dra.example/where2.asp)
```

EP 0 805 403 A2

FIG. 5

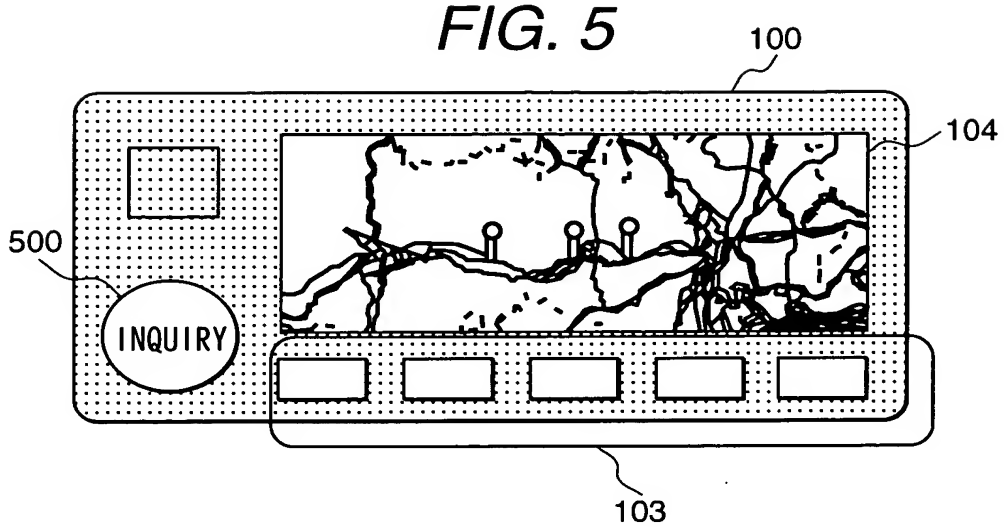
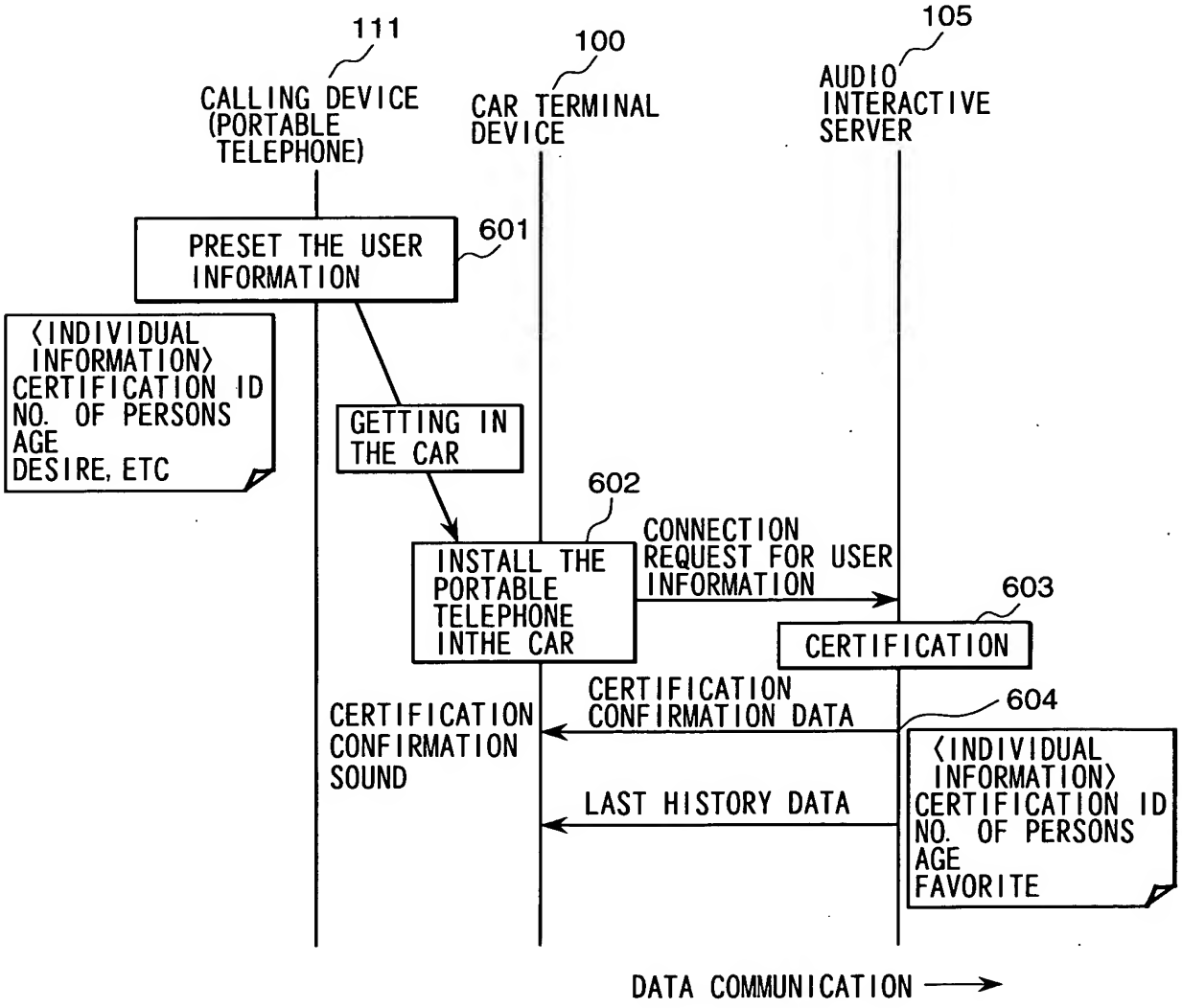
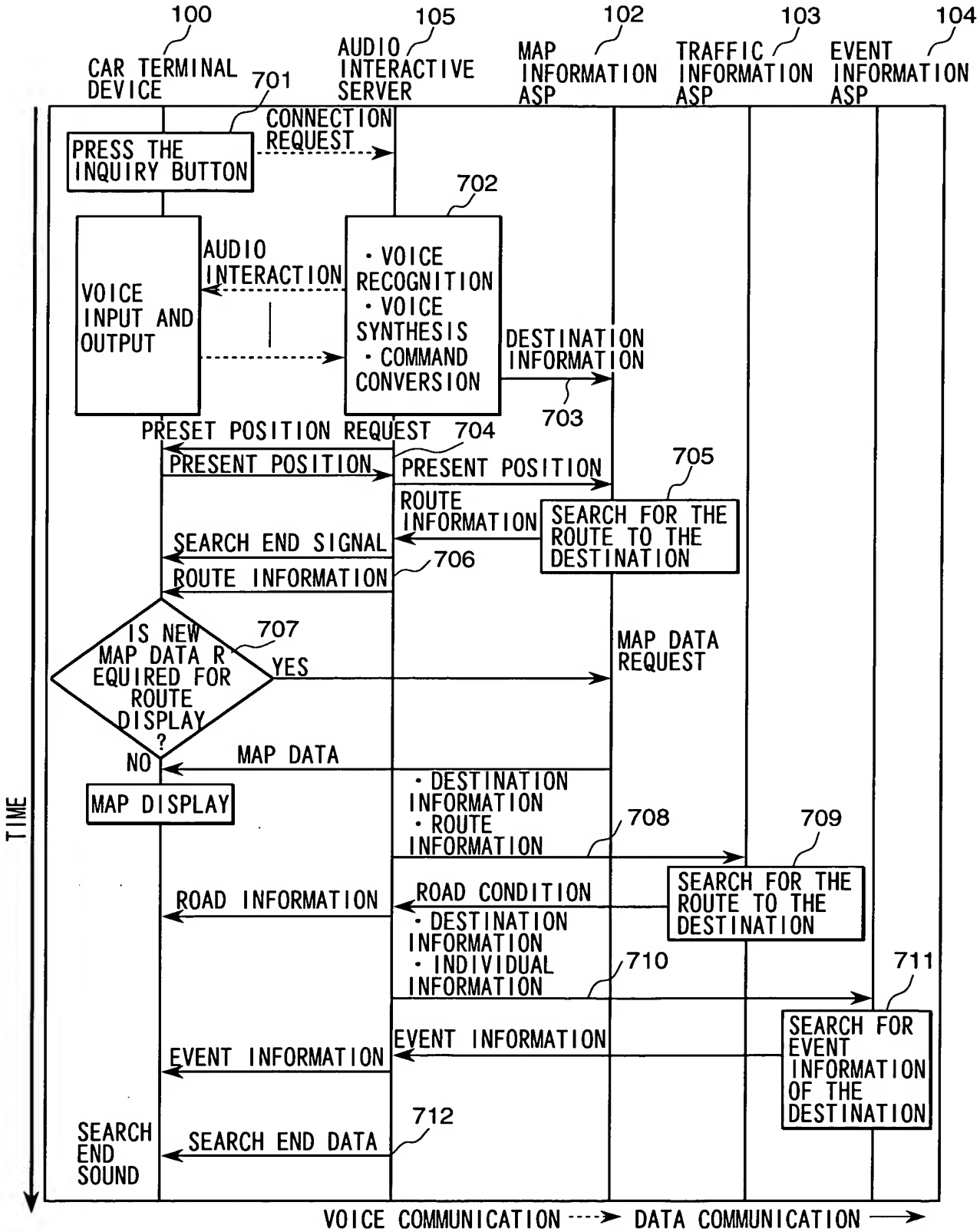


FIG. 6



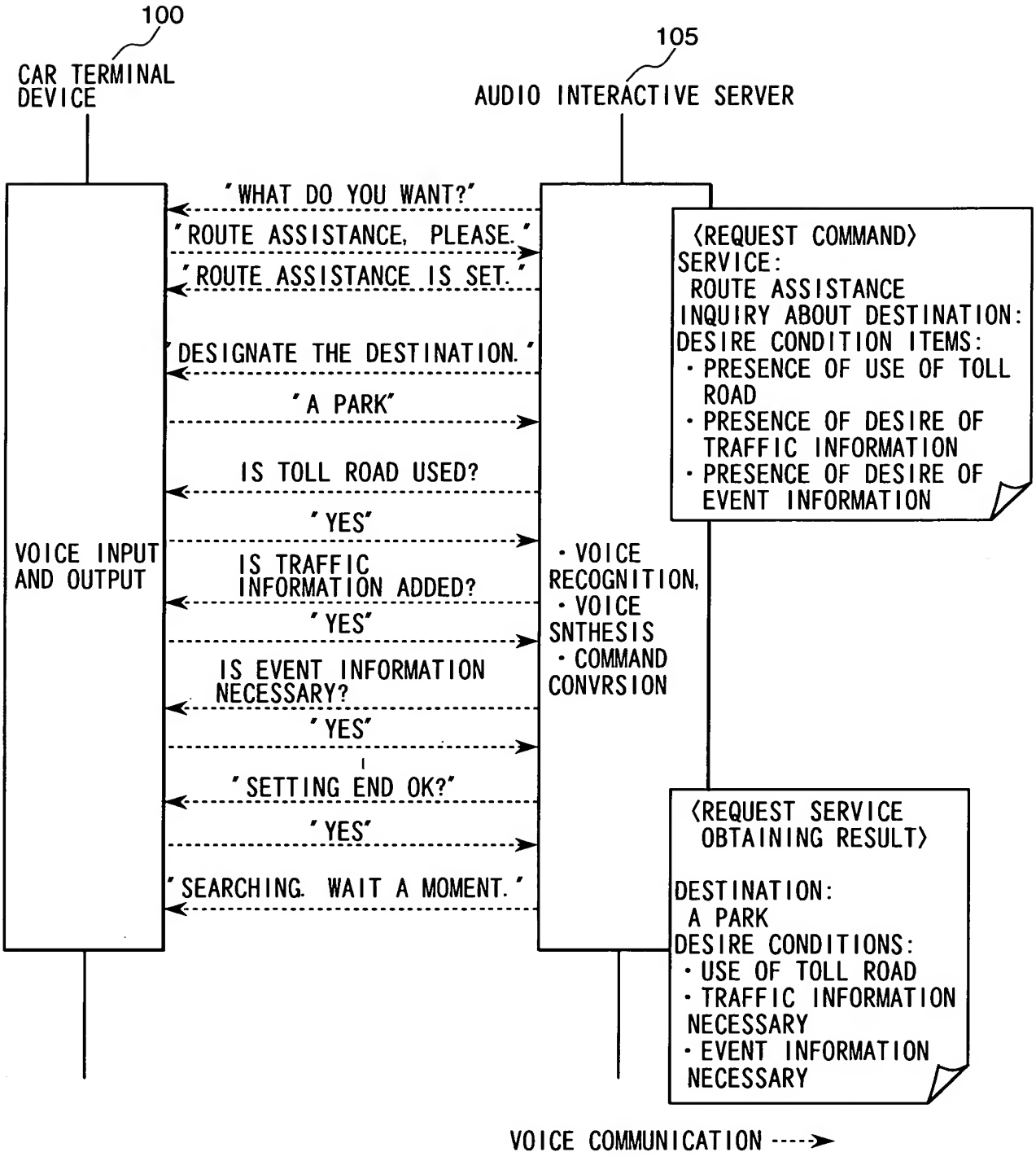
US 2005/0085949 A1

FIG. 7



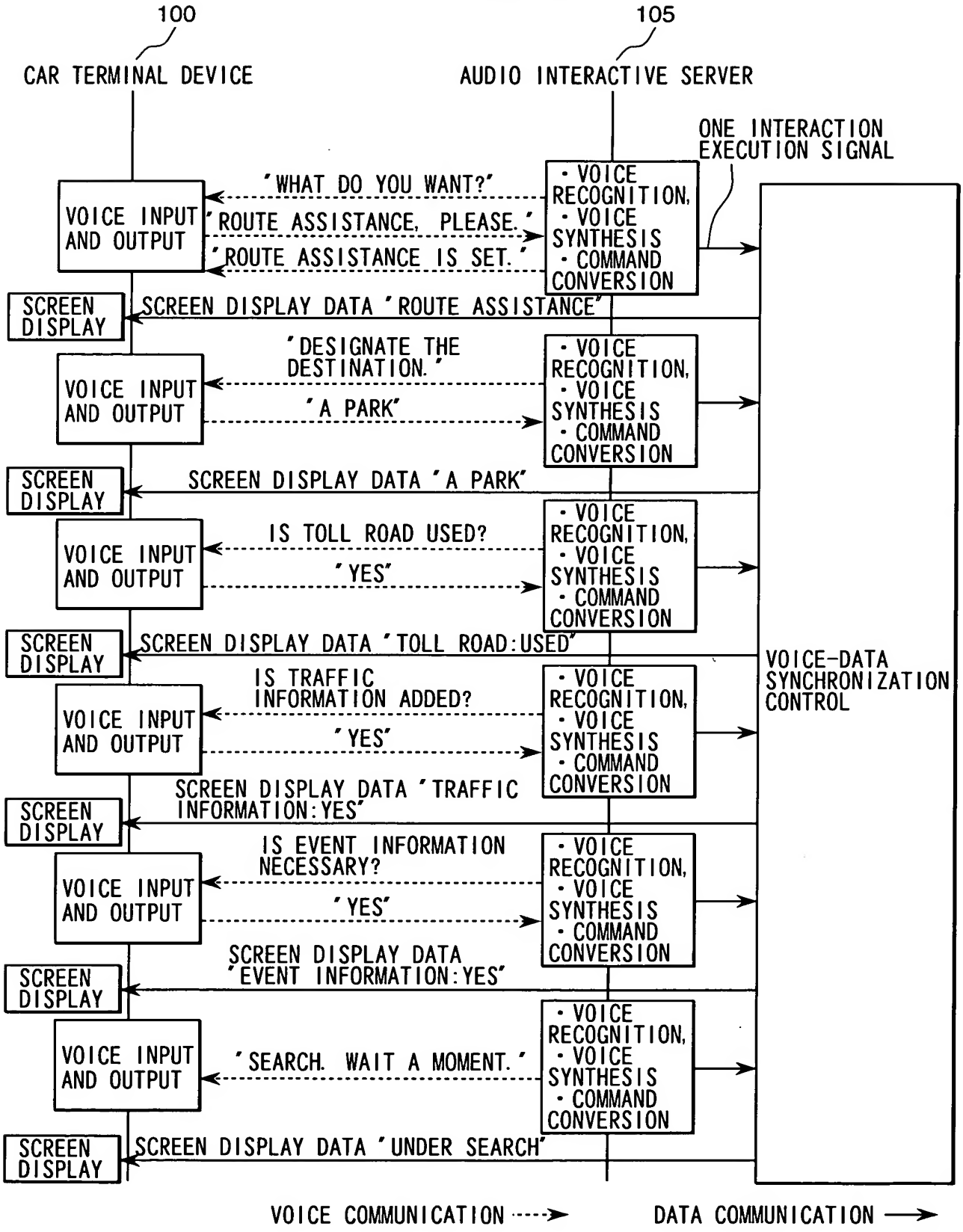
US 2005/0202807 A1

FIG. 8



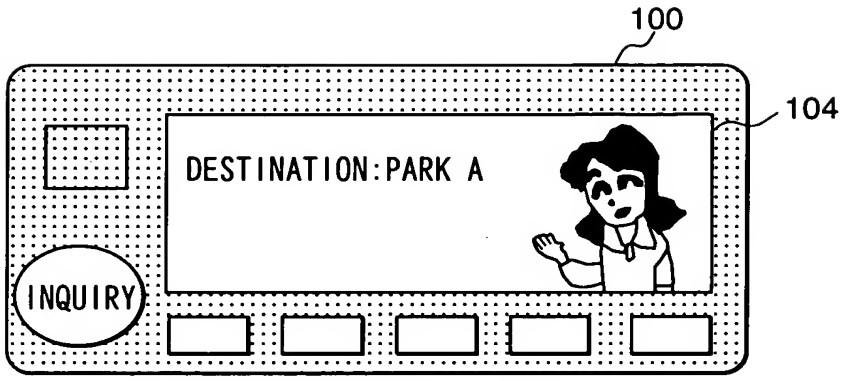
JP2006-058502

FIG. 9

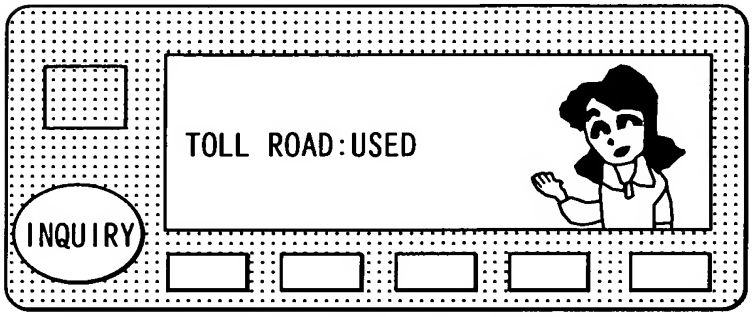


US 2020/0252502 A1 Aug. 6, 2020

FIG. 10

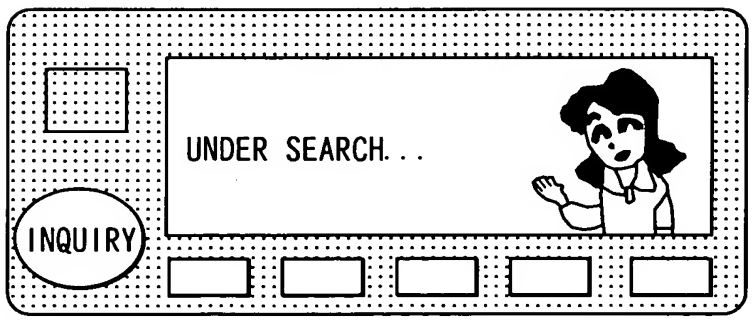


SCREEN DISPLAY DATA 'PARK A'



SCREEN DISPLAY DATA 'TOLL ROAD:USED'

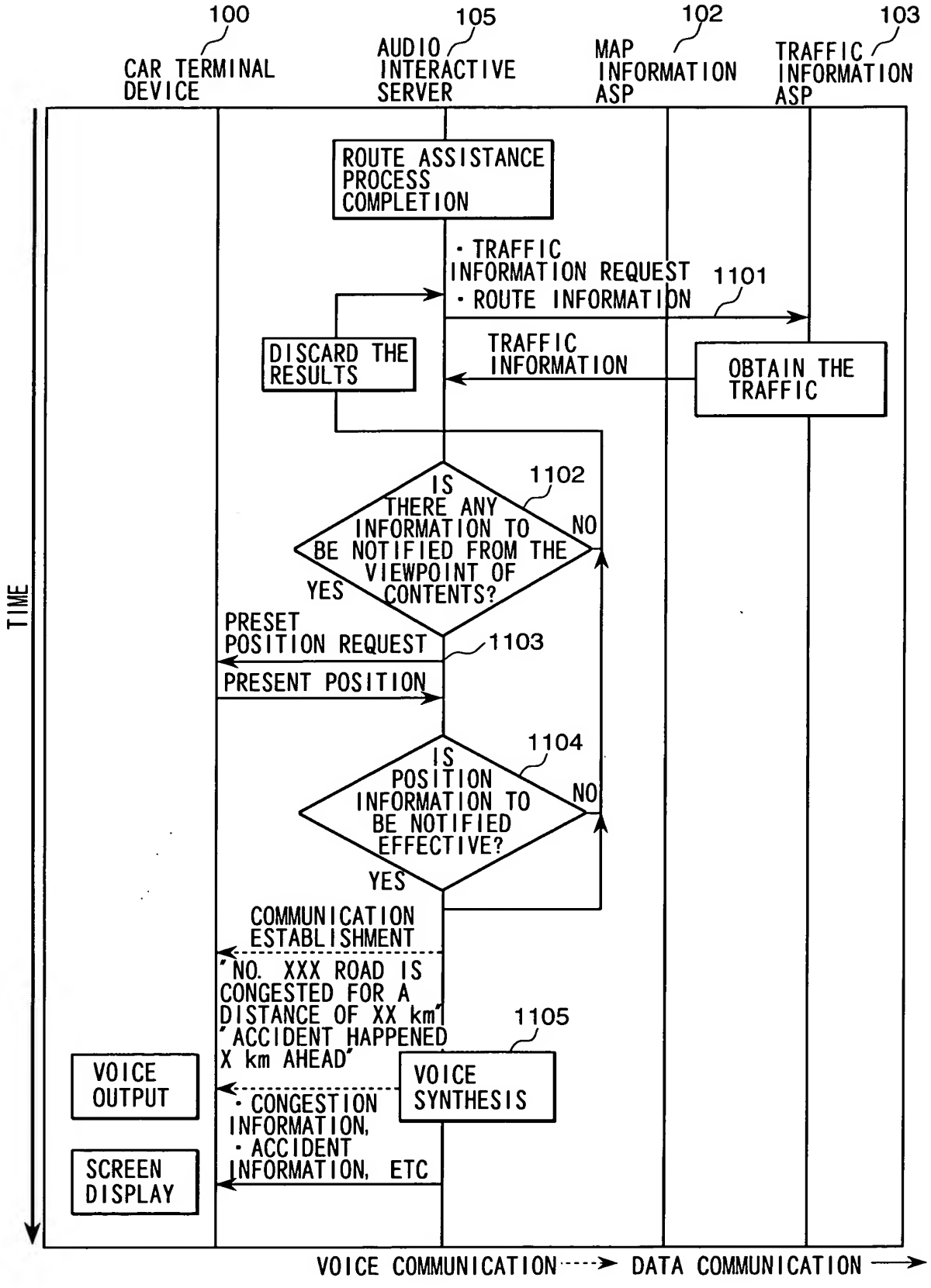
SCREEN DISPLAY DATA 'SEARCH COMPLETION'



SCREEN DISPLAY DATA 'UNDER SEARCH...'

JP2003-050128A

FIG. 11



2005-09-02 14:00:04

FIG. 12

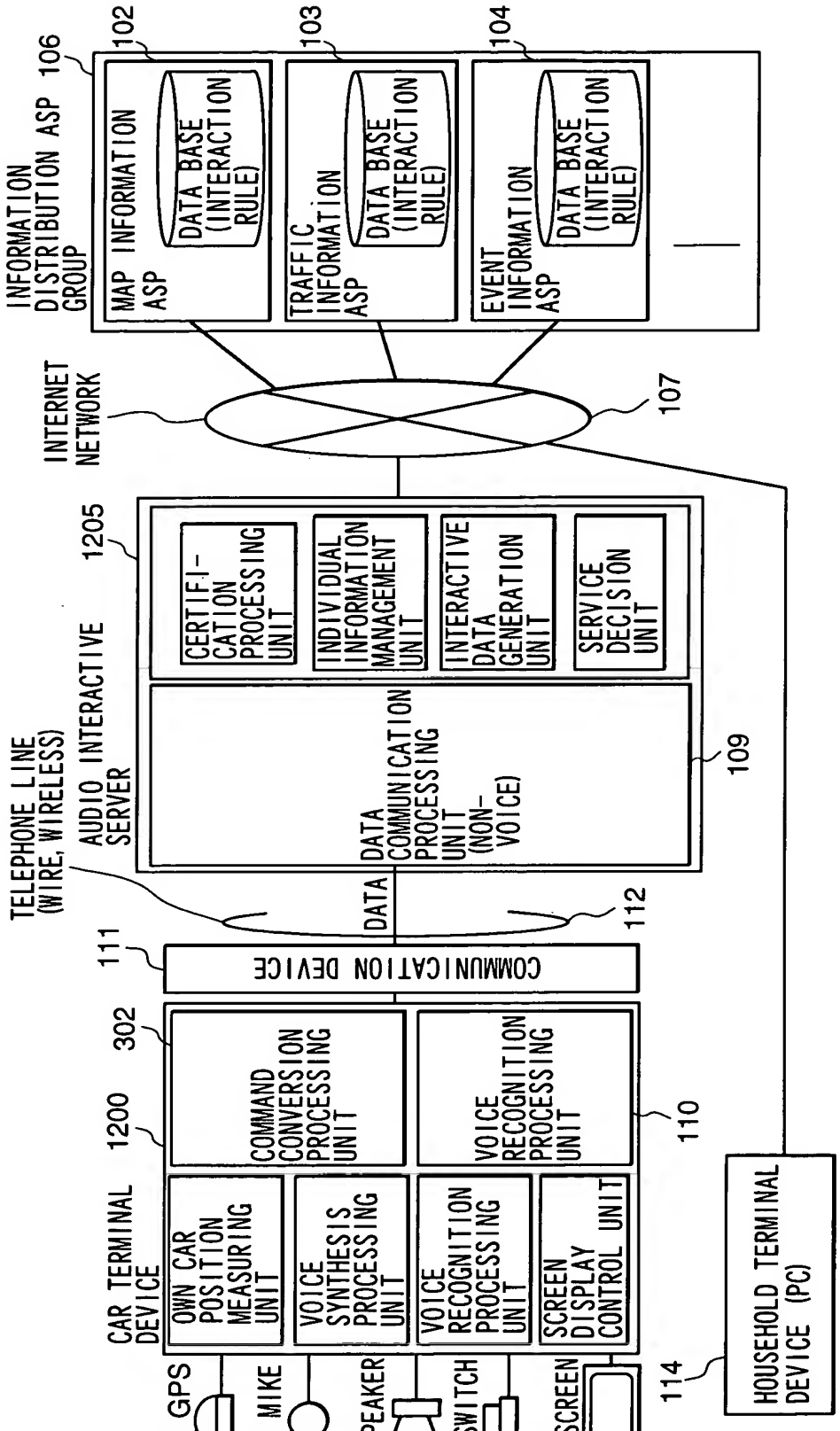
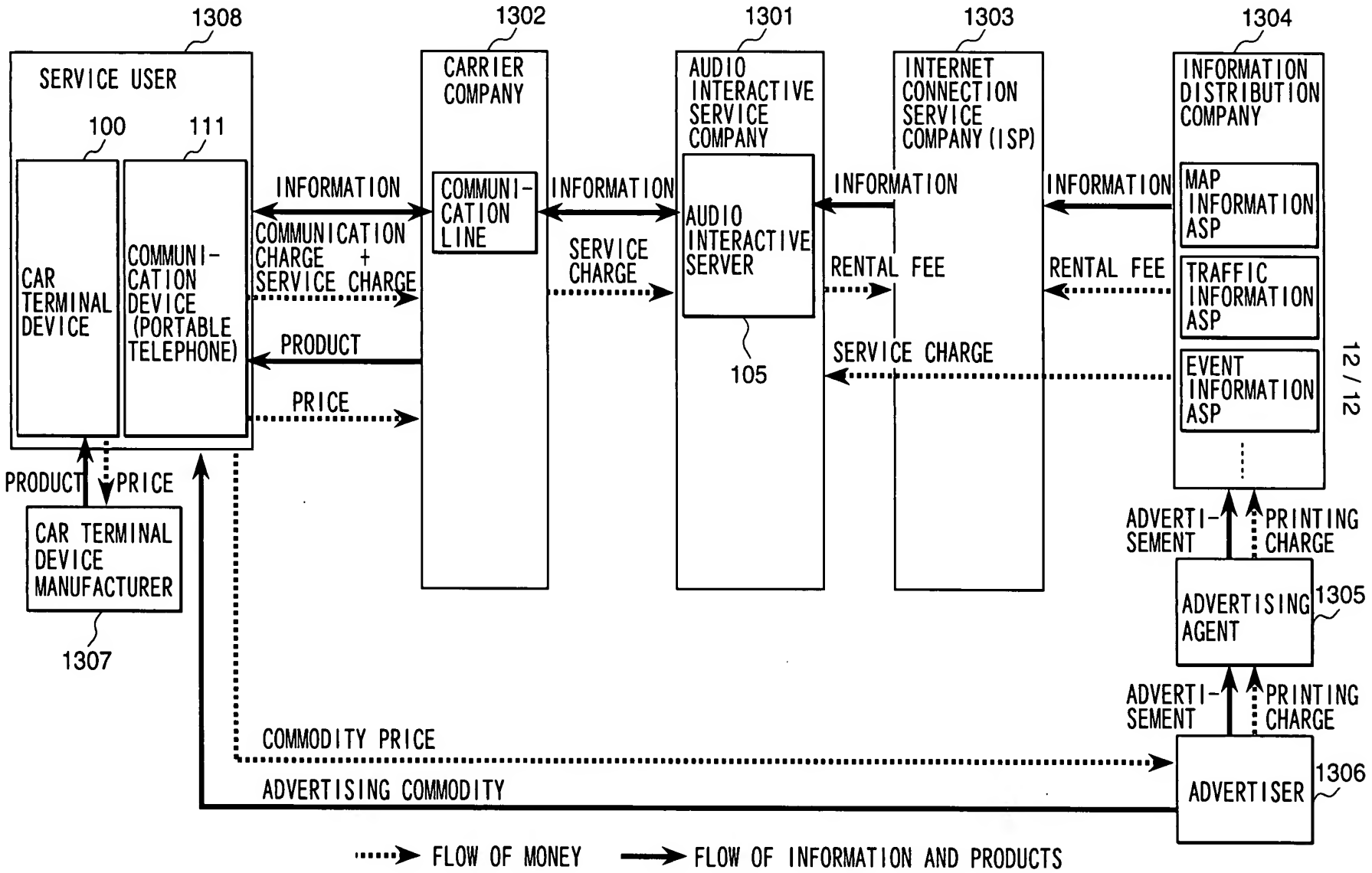

INFORMATION DISTRIBUTION ASP GROUP
106
MAP INFORMATION ASP
102
DATA BASE (INTERACTION RULE)
TRAFFIC INFORMATION ASP
103
DATA BASE (INTERACTION RULE)
EVENT INFORMATION ASP
104
DATA BASE (INTERACTION RULE)
INTERNET NETWORK
107
AUDIO INTERACTIVE SERVER
1205
CERTIFICATION PROCESSING UNIT
INDIVIDUAL INFORMATION MANAGEMENT UNIT
INTERACTIVE DATA GENERATION UNIT
SERVICE DECISION UNIT
DATA COMMUNICATION PROCESSING UNIT (NON-VOICE)
109
TELEPHONE LINE (WIRE, WIRELESS)
DATA
112
111
COMMUNICATION DEVICE
CAR TERMINAL DEVICE
1200
302
COMMAND CONVERSION PROCESSING UNIT
VOICE RECOGNITION PROCESSING UNIT
110
OWN CAR POSITION MEASURING UNIT
VOICE SYNTHESIS PROCESSING UNIT
VOICE RECOGNITION PROCESSING UNIT
SCREEN DISPLAY CONTROL UNIT
GPS
113
MIKE
101
SPEAKER
102
SWITCH
103
SCREEN
104
HOUSEHOLD TERMINAL DEVICE (PC)
114

FIG. 13


1308
SERVICE USER
100
111
CAR TERMINAL DEVICE
COMMUNI-CATION DEVICE (PORTABLE TELEPHONE)
1302
CARRIER COMPANY
COMMUNI-CATION LINE
1301
AUDIO INTERACTIVE SERVICE COMPANY
AUDIO INTERACTIVE SERVER
105
1303
INTERNET CONNECTION SERVICE COMPANY (ISP)
1304
INFORMATION DISTRIBUTION COMPANY
MAP INFORMATION ASP
TRAFFIC INFORMATION ASP
EVENT INFORMATION ASP
INFORMATION
COMMUNICATION CHARGE + SERVICE CHARGE
PRODUCT
PRICE
INFORMATION
SERVICE CHARGE
INFORMATION
RENTAL FEE
SERVICE CHARGE
INFORMATION
RENTAL FEE
PRODUCT
PRICE
CAR TERMINAL DEVICE MANUFACTURER
1307
ADVERTI-SEMENT
PRINTING CHARGE
ADVERTISING AGENT
1305
ADVERTI-SEMENT
PRINTING CHARGE
COMMODITY PRICE
ADVERTISING COMMODITY
ADVERTISER
1306
FLOW OF MONEY
FLOW OF INFORMATION AND PRODUCTS